

# Work Order ID 84743

Tuesday, May 22, 2012 2:30:14 PM

**\*84743\***

*Ship May 28th* Page 1

Item ID: D412-702-023

Accept

**\*N900040100\***

Setup Start **\*NS1\***

Revision ID:

Item Name: 5-Man Shoulder Harness, 4 point

Stop **\*NS2\***

Start Date: 5/22/2012 Start Qty: 1.00 **\*1\***

Cust Item ID:

Required Date: 5/28/2012 Req'd Qty: 1.00 **\*1\***

Customer:

Reference:

Approvals: Process Plan: *MF*

Date: *12-05-22* Tooling:

Date:

Run Start **\*NR1\***

QC:

Date: SPC (Y/N):

Date:

Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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N/A	Rev E
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100

0.00

**\*100\***

DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D412-702-023 CHG003

*JB*

*5/22/12/30*

*ML 12/05/29*

110

Pick Kit

0.00

**\*110\***

Packaging

Memo

0.00

Packaging

*1*

*12/05/29 JB*

120

QC4- 100% Inspect kits for completeness

0.00

**\*120\***

QC

Memo

0.00

Quality Control

*5/22/12/30*

*(Signature)*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 84743****\*84743\***

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Item ID: D412-702-023

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Item Name: 5-Man Shoulder Harness, 4 point

Stop **\*NS2\***

Start Date: 5/22/2012 Start Qty: 1.00

**\*1\***

Cust Item ID:

Required Date: 5/28/2012 Req'd Qty: 1.00

**\*1\***

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

130

0.00

**\*130\***

Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D412-702-023

Location: \_\_\_\_\_

12/5/30

140

QC21- Final Inspection - Work Order Release

0.00

**\*140\***

QC

Memo

0.00

Quality Control

MLJ 12/05/30

MLJ 12/05/30

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# Picklist Print

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Work Order ID: 84743

Parent Item: D412-702-023

Parent Item Name: 5-Man Shoulder Harness, 4 point

Start Date: 5/22/2012











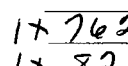



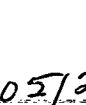
Required Date: 5/28/2012

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:B Removed Manufacturing 05-11-08 JLM  
 IPP Rev:C06.04.03As per DSI9324 JLM  
 IPP rev D 06.12.14 per ecn 871 EC  
 IPP Rev:E 07-03-14 As per DSI 9351 JLM  
 EC verified by: JLM

IPP Rev.F 11.05.31 DSI 9559

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
 <b>D3194-041</b> Bolt		Purchased	No			120	Each	1,491.0000	 4	4	✓	JB	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST357		1491							
				119449		33							
				120187		19							
				120422		2			120770				
				120770		400							
				121162		37							
				121652		1000							
 <b>D3195-041</b> Bracket Assembly		Manufactured	No			120	Each	10.0000	 2	2	✓	JB	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST246A		10							
				82351		10			82351				
 <b>D3195-043</b> Bracket Assembly		Manufactured	No			120	Each	7.0000	 2	2	✓	JB	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST246A		7							
				76210		1			1x 76210				
				82332		6			1x 82332				
 <b>D3196-1</b> Bar		Manufactured	No			120	Each	3.0000	 0	0	✓	JB	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST260		3							
				81533		3			81533				
 <b>D3197-041</b> Bar Assembly		Manufactured	No			120	Each	0.0000	 384604 <sup>2</sup>		✓	JB	

12/05/29

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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Page 2

Work Order ID: 84743

Parent Item: D412-702-023

Parent Item Name: 5-Man Shoulder Harness, 4 point

Start Date: 5/22/2012

Required Date: 5/28/2012

Start Qty: 1.00

Required Qty: 1.00

D3268-1 Manufactured No 120 Each 28.0000

Placard

Location Loc Qty Loc Code

ST246A 28

83225 28

D3546-1 Manufactured No 120 Each 4.0000

Clip

Location Loc Qty Loc Code

ST245 4

73444 4

D3551-11 Manufactured No 120 Each 19.0000

Hook and Loop Tie

Location Loc Qty Loc Code

ST246A 19

81879 19

D412-702-069 Manufactured No 120 Each 0.0000

Grommet

D4387-041 Manufactured No 120 Each 13.0000

Harness Assembly

Location Loc Qty Loc Code

quar 5

72273 5

ST263 8

82144 8

MS24694-S152 Purchased No 120 Each 50.0000

Screw

Location Loc Qty Loc Code

ST290 50

116440 1

119108 10

120731 18

121444 21

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Shop Packet Print

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Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Work Order ID: 84743

Parent Item: D412-702-023

Parent Item Name: 5-Man Shoulder Harness, 4 point

Start Date: 5/22/2012

Required Date: 5/28/2012

Start Qty: 1.00

Required Qty: 1.00

MS24694-S154

SCREW

Purchased

No

120

Each

34.0000

2

2

23 12/05/29

Location

Loc Qty

Loc Code

ST289A

7

120498

7

ST290

27

119022

4

121068

23

120498



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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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QTY -021	<del>QTY -023</del>	QTY -025	QTY -027	QTY -029	QTY -035	Part Number	Description
X						D412-702-021	Dart 13-Man Shoulder Harness Kit, 4-point
	X					D412-702-023	Dart 5-Man Forward Facing Shoulder Harness Kit, 4-point
		X				D412-702-025	Dart 4-Man Aft Facing Shoulder Harness Kit, 4-point
			X			D412-702-027	Dart 4-Man Side Facing Shoulder Harness Kit, 4-point
				X		D412-702-029	Dart 1-Man Forward Facing Shoulder Harness Kit, 4-point
					X	D214-702-035	Dart 5-Man Aft Facing Shoulder Harness Kit, 4-point, for Bell 214B/B-1
1	<del>1</del>		<del>1</del>	<del>1</del>		<del>D412-702-069</del>	<del>GROMMET KIT</del>
2	<del>2</del>					D3195-041	BRACKET
2	<del>2</del>					D3195-043	BRACKET
1	<del>1</del>			<del>1</del>		<del>D3196-1</del>	<del>BAR</del>
1			1			D3196-3	BAR
1			1			D3196-4	BAR
2	<del>2</del>					<del>D3197-041</del>	<del>BAR</del>
4		4				D3198-1	FITTING
2	<del>2</del>					<del>D3268-1</del>	<del>PLACARD</del>
9	<del>5</del>		4	1		D3446-041	HARNESS ASSEMBLY, 4 POINT
4		4				D3446-043	HARNESS ASSEMBLY, 4 POINT
					5	D3446-045	HARNESS ASSEMBLY, 4 POINT
13	<del>5</del>	<del>4</del>	<del>4</del>	<del>1</del>	<del>5</del>	<del>D3551-11</del>	<del>HOOK AND LOOP TIE</del>
2	<del>2</del>					<del>D3546-1</del>	<del>CLIP</del>
4		4				AN4-5A	BOLT
4	<del>4</del>					AN4-13A	BOLT
8		8				AN4-20A	BOLT
20		20				AN960JD416	WASHER (OR NAS1149D0463J)
12		12				MS21042L4	NUT (OR MS21042-4)
8	<del>2</del>		<del>6</del>	<del>2</del>		<del>MS24694-S152</del>	<del>SCREW</del>
8	2		6	2		MS24694-S154	SCREW

QTY -069	Part Number	Description
X	D412-702-069	GROMMET KIT
24	D3619-2	GROMMET
1	D3619-2T1	HOLE PUNCH
1	D3619-2T2	STRIKER BLOCK
1	D3619-2T3	PUNCH
1	D3619-2T4	DIE

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REFERENCE ONLY

# DART SERVICE INSTRUCTION

TO AMEND IIN-D412-702-1 REV. A,  
AND ICA-D412-702 REV. 4 OR EARLIER APPROVED REVISIONS  
REF. TCCA STC: SH04-7  
REF. FAA STC: SR01997NY  
REF. EASA STC: EASA.IM.R.S.00710

## PURPOSE

The purpose of this DSI is to outline the replacement of existing D3446-041/-043 Shoulder Harnesses with the new and improved D4387-041/-043 Shoulder Harnesses.

## CHANGE

For the following Kits, the D4387-041 and D4387-043 Shoulder Harnesses respectively replace the D3446-041 and D3446-043 Shoulder Harnesses as follows:

Old Harness P/N	Used On	New Harness P/N	Effectivity
D3446-041	D412-702-021	<b>D4387-041</b>	CHG 003 and subsequent
	<del>D412-702-023</del>		
	D412-702-027		CHG 002 and subsequent
	D412-702-029		
D3446-043	D412-702-021	D4387-043	CHG 003 and subsequent
	D412-702-025		CHG 002 and subsequent

Customers who want to upgrade their shoulder harnesses may replace their existing D3446-041/-043 with D4387-041/-043 per this service instruction.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY: [Signature]  
D. SHEPHERD (DE # 02)

DATE: 11.05.09  
CERT. NO.: SH04-7  
ISSUE NO.: 3

A	NEW ISSUE	MB	11.05.09
REV.	DESCRIPTION	BY	DATE
DESIGN	<u>[Signature]</u>	<b>DART AEROSPACE LTD</b>	
DRAWN	<u>[Signature]</u>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<u>[Signature]</u>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9559	SHEET 1 OF 1
APPROVED	<u>[Signature]</u>	TITLE	SCALE
DE APPR.	<u>[Signature]</u>	HARNES CHANGE	NTS
DATE	11.05.09	<small>COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

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